Performance guarenteed'

Ryanodine Receptor Monoclonal Antibody (C3-33)

Product Details

Size	100 µg
Species Reactivity	Amphibian, Dog, Chicken, Fish, Guinea pig, Human, Mouse, Rabbit, Rat
Published Species	Dog, Rabbit, Rat, Pig, Sheep, Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Туре	Antibody
Clone	C3-33
Conjugate	Unconjugated
Immunogen	Canine cardiac ryanodine receptor (RyR2)
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2183054

Applications	Tested Dilution	Publications
Western Blot (WB)	1 μg/mL	97 Publications
Immunohistochemistry (IHC)	-	23 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1 μg/mL	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	1 μg/mL	3 Publications
Immunocytochemistry (ICC/IF)	1:50	36 Publications
Flow Cytometry (Flow)	Assay-dependent	-
Immunoprecipitation (IP)	Assay-dependent	7 Publications
ChIP assay (ChIP)	-	1 Publication
in situ PLA (PLA)	-	1 Publication
Dot blot (DB)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

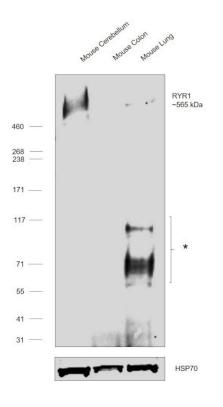
Product Specific Information

MA3-916 detects ryanodine receptor 2 (RyR2) and shows cross-reactivity with RyR1 in amphibian, canine, chicken, fish, guinea pig and rat tissues.

MA3-916 has been successfully used in Western blot, immunohistochemical, immunofluorescence, immunocytochemistry and immunoprecipitation procedures. By Western blot, this antibody detects a 565 kDa protein representing the ryanodine receptor. In non-mammalian vertebrates, a doublet is seen at 565 kDa representing the alpha and beta isoforms of the receptor. Immunohistochemical staining of RyR in rat cardiac tissue with MA3-916 results in intense staining of the myofiber, which is consistent with sarcoplasmic reticulum localization.

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Product Images For Ryanodine Receptor Monoclonal Antibody (C3-33)



Ryanodine Receptor Antibody (MA3-916)

Antibody specificity was demonstrated by detection of differential basal expression of the target across tissues tested owing to their inherent genetic constitution. Relative expression of Ryanodine receptor 1 was observed in Mouse Cerebellum in comparison to Mouse colon and Mouse lung using Anti-Ryanodine Receptor Monoclonal Antibody (C3-33) (Product # MA3-916) in Western Blot. {RE}

Ryanodine Receptor Antibody (MA3-916) in WB

Western blot was performed using Anti-Ryanodine Receptor Monoclonal Antibody (C3-33) (Product # MA3-916) and a 565 kDa band corresponding to Ryanodine receptor 1 was observed along with two uncharacterized band (*) at ~70 kDa and 100 kDa across tissues tested. Tissue extracts (30 µg lysate) of Mouse Cerebellum (Lane 1), Mouse Colon (Lane 2) and Mouse Lung (Lane 3) were electrophoresed using NuPAGETM 3-8% Tris-Acetate Protein Gel (Product # EA0378BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # LC2001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1 µg/mL) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) SuperclonalTM Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using SuperSignalTM West Dura Extended Duration Substrate (Product # 34076).

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Fig. 1

Ryanodine Receptor Antibody (MA3-916) in IHC Immunofluorescent analysis of rat brain hippocampus tissue shows that Ryanodine Receptor Monoclonal Antibody (Product # MA3-916) crossreacts with RyR1.

□ 171 References

Western Blot (97)

International journal of cardiology. Heart & vasculature Anti-inflammatory effects of endothelin receptor blockade in left atrial		
"MA3-916 was used in Western Blotting to investigate whether an endothelin receptor antagonist, macitentan, could reduce left atrial (LA) remodeling in arterial hypertension."		
Authors: Bukowska A, Nikonova Y, Wolke C, Lendeckel U, Kockskämper J, Goette A	Dilution 1:5000	
Journal of the American Heart Association	Year	
	Year 2022	
Candesartan Cilexetil Attenuates Arrhythmogenicity Following Pressure		
Overload in Rats via the Modulation of Cardiac Electrical and Structural	Species Rat	
Remodeling and Calcium Handling Dysfunction.	Rai	
"MA3-916 was used in Western Blotting to assess whether candesartan cilexetil, an angiotensin II type 1 receptor blocker, could suppress arrhythmogenecity by attenuating cardiac electrical remodeling and calcium mishandling in rats with pressure-overload hypertrophy."	Dilution 1:1000	
Authors: Chang GJ,Yeh YH,Chen WJ,Ko YS,Lai YJ,Lee YS		

View more WB references on thermofisher.com

Immunohistochemistry (23)

Cancer management and research	Year
Identification of Three Potential Prognostic Genes in Platinum-Resistant	2022
Ovarian Cancer via Integrated Bioinformatics Analysis.	Species
"MA3-916 was used in Immunohistochemistry, Western Blot to find the poorly understood molecular mechanisms	Human
nderlying platinum resistance in ovarian cancer." Nuthors: Zhang X,Wei X,Bai G,Huang X,Hu S,Mao H,Liu P	Dilution 1:1000
Nature communications	Year
Depart DNA DAINT suppresses background and new specific signals in	2021

Repeat DNA-PAINT suppresses background and non-specific signals in		
optical nanoscopy.	Species	
"MA3-916 was used in Immunohistochemistry to describe Repeat DNA-PAINT, a method that enables a substantial reduction in imager concentration, thus suppressing spurious signals."	Human	
Authors: Clowsley AH,Kaufhold WT,Lutz T,Meletiou A,Di Michele L,Soeller C	Dilution 1:200	

View more IHC references on thermofisher.com

More applications with references on thermofisher.com

IHC (P) (1) IHC (F) (3) ICC/IF (36) IP (7) ChIP (1) PLA (1) DB (1) Misc (1)

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